THE PRIME EXAMINATIONS 2024

P.6 END OF TERM I

MATHEMATICS

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Time allocated 2 hours 30 minutes

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has **two** sections: **A** and **B**. Section **A** has **20** questions (**40 Marks**) and Section **B** has **12** questions. (**60 Marks**)

2. Answer **ALL** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.

3. **All** working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than on graphs and diagrams will **not** be marked.

4. **No calculators** are allowed in the examination room.

5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks.**

6. Do not fill anything in the table indicated "FOR EXAMINERS' USE ONLY"

FOR EXAMINERS' USE ONLY		
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED

Consultant
Mathematics Department (PEC)

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Turn Over

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Section A (40 Marks)

1 Work out:

$$\begin{array}{r} 321 \\ \times\ \ 3 \\ \hline \\ \hline \end{array}$$

2 Write 20049 in words.

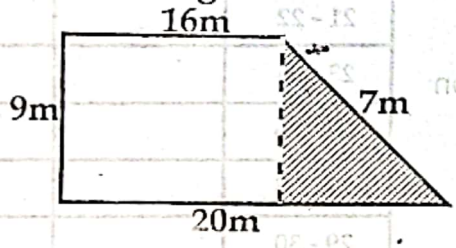
3 Given that X = {2, 5, 7}. Find the number of subsets.

4 If  stands for 7 pots, draw pictures that will represent 35 pots.

5 **Find the next number in the sequence below.**
10, 12, 15, 20, ____, ____

6 A forty nine minutes speech ended at 4:50pm. At what time did it start?

7 **Given the figure below. Find the perimeter of the figure.**



8 The marked price of a radio was sh.54000. A trader bought it and later sold it at sh.7500 less. How much did she sell the radio?

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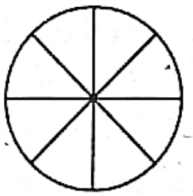
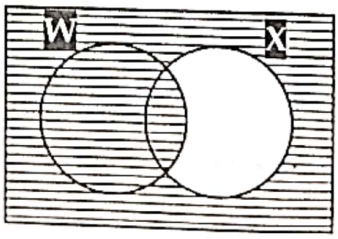
9	Work out: $^{-}8 - ^{-}3$	10	Express 24 as a product of its prime factors.
11	Solve for W: $7W - 3 = 25$	12	Shade $\frac{3}{4}$ of the figure below. 
13	Add: kg g 54 640 +35 260	14	Find the supplement of 132^0.
15	Express $(5x10^3) + (1x10^1) + (9x10^0)$ as a single number.	16	A parent gave his first son $\frac{3}{8}$ of his land. Find the fraction of land a parent remained with.
17	Given that P= {all factors of 12}, find n(P).	18	Describe the shaded part on the Venn diagram below. 

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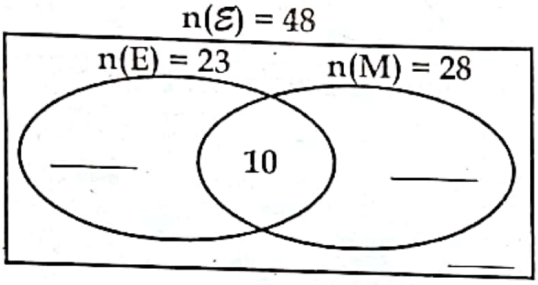
19 Round off 548 to the nearest tens.

20 Given the cost of a table as sh.40,000. How many tables can one buy with sh.240,000?

Section B (60 Marks)

21 In a class of 48 pupils, 28 like Mathematics (M), 23 like English(E), 10 like both Mathematics and English while K pupils like none of the two subjects.

(a) Use the above information to complete the Venn diagram below. *(03 marks)*



(b) How many pupils don't like English? *(02 marks)*

22 Given the numeral 40,876.

(a) Find the difference between the place value of 4 and the value of 8. *(03 marks)*

(b) Expand the numeral above using values. *(02 marks)*

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23 (a) Find the least number of books that can be shared by 15 pupils or 12 pupils and 7 books remain. *(02 marks)*

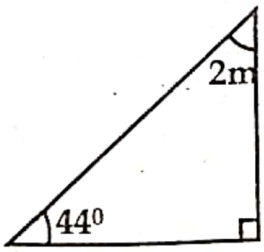
(b) Work out the GCF of 20 and 28. *(02 marks)*

24 Given the length and width of a rectangular room as **14m** and **12m** respectively.

(a) Workout the area of the figure. *(02 marks)*

(b) Calculate the distance one covers after moving around the above room thrice. *(03 marks)*

25 (a) Find the value of **m**. *(02 marks)*



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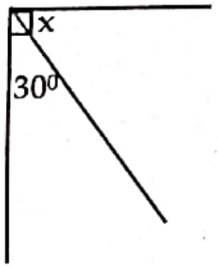
(b) Find the value of x. *(02 marks)*

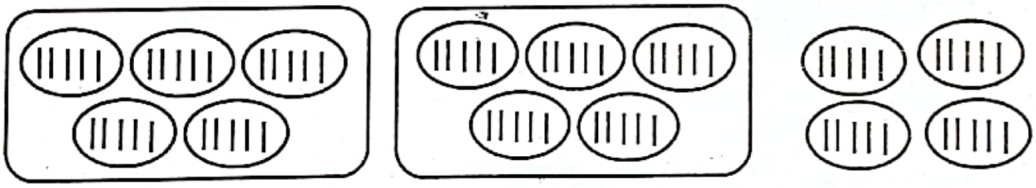


26 In a class of 54 pupils $\frac{2}{9}$ are boys and the rest are girls.

(a) Find the number of girls in the class. *(03 marks)*

(b) How many more girls than boys are in the class? *(02 marks)*

27 (a) Write the base five numeral represented below. *(02 marks)*



(b) Express 300_{five} as a base ten numeral. *(02 marks)*

(c) Find the sum of the value of 1 and the place value of 4 in 2143_{five}. *(02 marks)*

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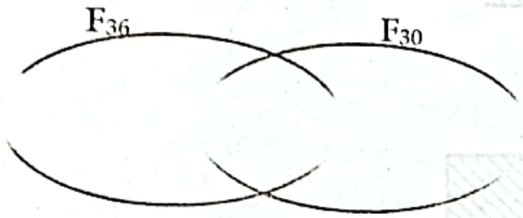
28 Ben and William weigh 37kg and 57kg respectively.

(a) Express the sum of their weight as a roman numeral. *(03 marks)*

(b) Represent the difference in their weight in tally form. *(02 marks)*

29 (a) **Prime factorise 30 and 36 and represent their prime factors on the Venn diagram below.** *(04 marks)*



(b) Find $F_{36} \cup F_{30}$.

30 (a) Joan tossed a dice in air, find the probability that an even number appears on top. *(02 marks)*

(b) Given that E= {8,9,3,6,7,4}, what is the probability of choosing a composite number from E? *(02 marks)*

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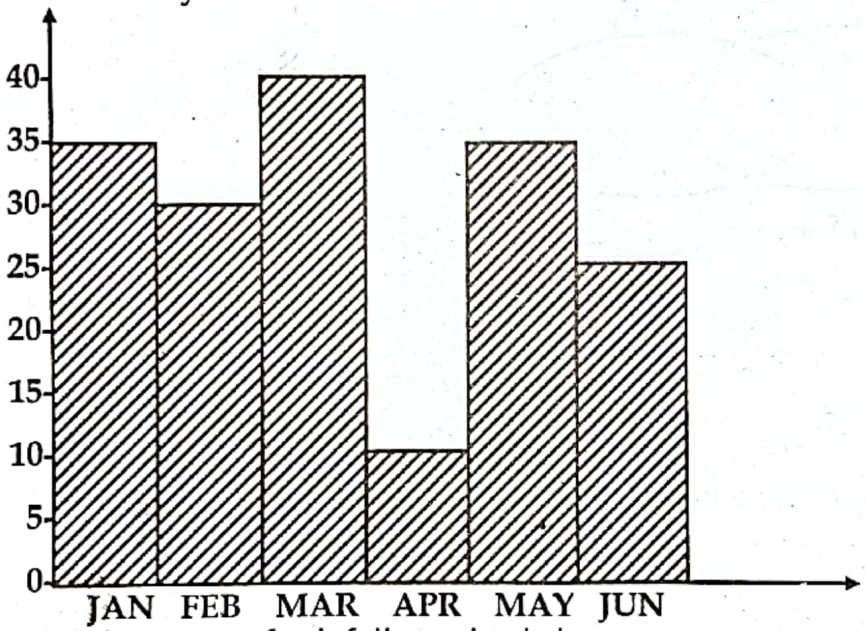
31 (a) Using the formular $\frac{n(n+1)}{2}$, find the **11th** triangular number. *(02 marks)*

(b) Find the sum of the **5th** and **9th** square numbers. *(04 marks)*

32 **The bar graph below shows the amount of rainfall received in the first six months of the year in Kabaale in 2022.**



(a) Find the range of rainfall received above. *(02 marks)*

(b) In which two months was the same amount of rainfall received? *(01 mark)*

(c) Workout the total amount of rainfall received in the first five months of the year. *(02 marks)*

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